

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP2004/018338

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B01J23/38 B01J23/56 B01J35/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B01J B01D H01M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, COMPENDEX, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>ESCUDERO M J ET AL: "Development and performance characterisation of new electrocatalysts for PEMFC" JOURNAL OF POWER SOURCES, ELSEVIER SEQUOIA S.A. LAUSANNE, CH, vol. 106, no. 1-2, 1 April 2002 (2002-04-01), pages 206-214, XP004348690 ISSN: 0378-7753 page 207 - page 209 2.3 Preparation of the membrane electrode assembly</p>	1-3,6,7, 9,10
X	<p>EP 0 466 984 A (UOP) 22 January 1992 (1992-01-22) column 7, line 10 - column 8, line 7; claim 6</p> <p style="text-align: center;">-/-</p>	9,10

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

S document member of the same patent family

Date of the actual completion of the international search

15 February 2005

Date of mailing of the international search report

23/02/2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 714 693 A (TARGOS ET AL) 22 December 1987 (1987-12-22) examples III-V	9,10
X	WO 85/03241 A (EKA AB) 1 August 1985 (1985-08-01) example 35	9,10
A	US 2002/045543 A1 (TAKATORI KAZUMASA ET AL) 18 April 2002 (2002-04-18) claim 18	1-10

INTERNATIONAL SEARCH REPORT

information on patent family members

International Application No

PCT/JP2004/018338

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0466984	A	22-01-1992	US 4945116 A	31-07-1990
			EP 0466984 A1	22-01-1992
			US 5059574 A	22-10-1991
			ZA 9005574 A	24-04-1991
US 4714693	A	22-12-1987	NONE	
WO 8503241	A	01-08-1985	BR 8504993 A	21-01-1986
			BR 8504994 A	21-01-1986
			DK 437385 A	27-09-1985
			EP 0153911 A1	04-09-1985
			EP 0169877 A1	05-02-1986
			FI 853778 A	30-09-1985
			JP 61501080 T	29-05-1986
			NO 853819 A	27-09-1985
			SE 8400427 A	31-07-1985
			SE 8402916 A	31-07-1985
			WO 8503241 A1	01-08-1985
			WO 8503240 A1	01-08-1985
			SE 8400429 A	31-07-1985
			SE 8400432 A	31-07-1985
			SE 8400433 A	31-07-1985
US 2002045543	A1	18-04-2002	JP 2002066335 A	05-03-2002